# Intimidator™ Spot 150

## Snapshot

| | |
|---|---|
| OK on Dimmer | ⊘ |
| Outdoor OK | ⊘ |
| Sound Activated | ✓ |
| DMX512 | ✓ |
| Master/Slave | ✓ |
| 115V/230V Switch | ✓ |
| Replaceable Fuse | ✓ |
| User Serviceable | ⊘ |
| Duty Cycle | ⊘ |

# USER MANUAL



Value • Innovation • Performance

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# 1. BEFORE YOU BEGIN

## What is included

- 1 x Intimidator™ Spot 150
- 1 x Mounting bracket kit w/screws
- 1 x Power Cord
- 1 x Warranty Card
- 1 x User Manual

## Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

## AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

***Figure 1 - AC Voltage Switch***




Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

***Warning!*** ***Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Earth Ground.***

# Safety Instructions

Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

***Caution!*** ***There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.***

# 2. INTRODUCTION

## Features

- 8 or 12-channel DMX-512 moving yoke
- Pan: 540° / tilt: 270°
- Color wheel
  - 7 colors + white
  - Split colors
  - Rainbow color spin at variable speeds
- Indexed rotating gobo wheel with gobo shake
  - 7 interchangeable gobos + open
  - 5 metal, 2 glass installed
  - Rotating gobo wheel spin at variable speeds
- Variable motorized shutter (for strobing)
- Variable motorized dimmer (0 – 100%)
- Remote fixture reset, lamp on/off & vector speed channel
- Individual reset of pan/tilt, color, gobo, shutter
- Move-in-black for pan/tilt, color, gobo
- Built-in effect macros via DMX (gobo, gobo rotation, color, strobe)
- Built-in automated programs via master/slave or DMX
- Built-in sound-active programs via master/slave or DMX

## Additional Features

- 3-pin and 5-pin DMX connections
- User-selectable pan/tilt ranges
  - Pan: 540°, 360°, 180°
  - Tilt: 270°, 180°, 90°
- Automatic pan & tilt correction
- User-selectable basic or advanced operating modes

## DMX Channel Summary

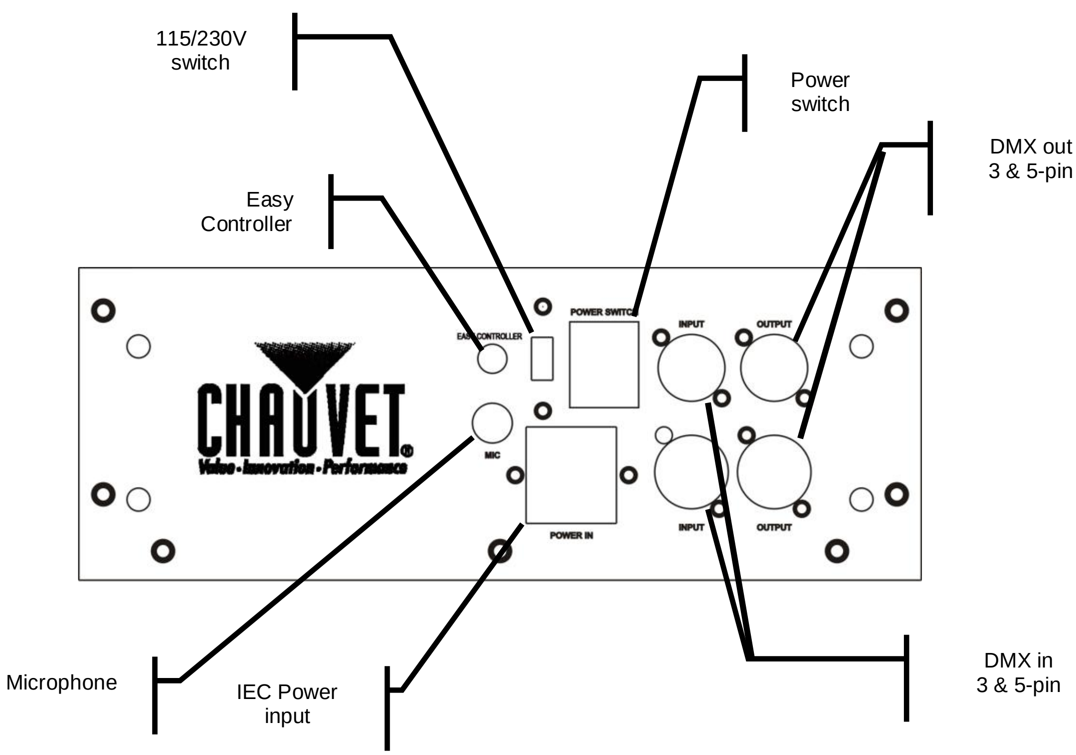
### Basic Mode

| Channel | Function |
|---|---|
| 1 | Pan |
| 2 | Tilt |
| 3 | Color |
| 4 | Gobo |
| 5 | Gobo rotation |
| 6 | Shutter |
| 7 | Dimmer |
| 8 | Effect |

### Advanced Mode

| Channel | Function |
|---|---|
| 1 | Pan coarse |
| 2 | Tilt coarse |
| 3 | Pan fine |
| 4 | Tilt fine |
| 5 | Pan/Tilt speed |
| 6 | Color |
| 7 | Gobo |
| 8 | Gobo rotation |
| 9 | Shutter |
| 10 | Dimmer |
| 11 | Mode/function |
| 12 | Effect |

## Product Overview



# 3. SETUP

## Lamp

You will need to install a lamp prior to the initial operation of the fixture. A HTI 150W discharge lamp is included.

***Warning!*** ***When replacing the lamp, please wait 15 minutes after powering down to allow the unit to cool down! Always disconnect from main power prior to lamp replacement.***

Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with alcohol and wipe it with a lint free cloth before installation.

## Maximizing the life of your lamp

***Note: To ensure the longest and most efficient use of the lamp always wait between 10 and 15 minutes before re-applying power after a shutdown.***

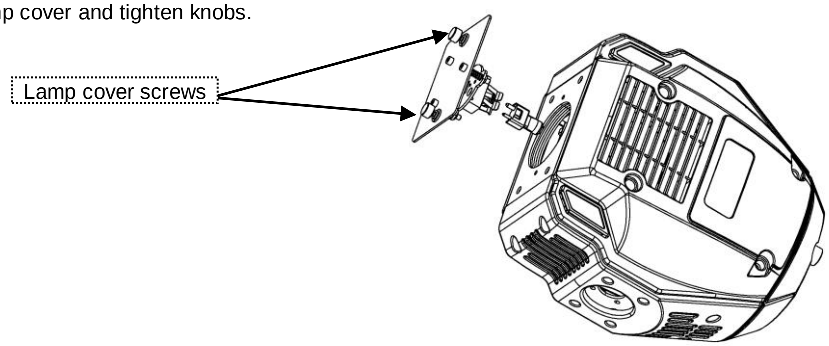
Failure to do so could result in premature aging of the lamp and failure to the electronics that drive it.

Never turn off the power to the unit while the lamp is striking. Always wait 15 minutes after powering on the fixture before powering down. Turning off the lamp during striking may permanently damage the lamp.

## Lamp Installation

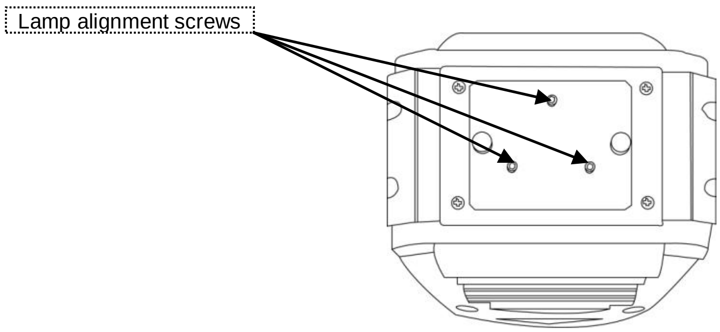
Follow the instructions below for lamp installation.

1) Turn off power to fixture.
2) Loosen the 2 lamp covers knobs by turning counter-clockwise.
3) If there is a current lamp you are replacing, remove it now.
4) While using care not to allow the globe of the lamp to contact your bare skin, install the new lamp.
5) Replace lamp cover and tighten knobs.



## Lamp Alignment How-To

After a new installation of a lamp, you may find that there is an uneven field of light or what is refered to as a “hot spot”. This is due to the most intense point of the lamp source not being positioned optimally within the reflector.



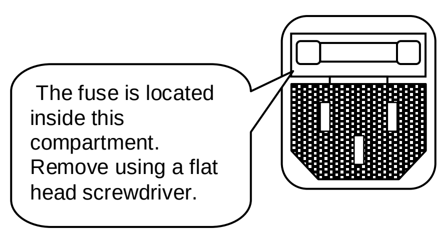

There are 3 lamp alignment screws provided at the base of the fixture. Turning these screws allows you to optimize the projection quality of the spot, as well as the overall intensity of the beam.

1. Project a white spot against any flat surface. Preferably the surface should be white or pastel in color.
2. Turning the lamp alignment screws, try to position the hot spot in the center of the beam as best as possible. This could require many attempts on your part. It is advisable to even out the screws prior to lamp alignment as described in the illustration.
3. Once the hot spot is in the center of the spot, do your best to turn all screws equally as to affect movement up or down within the reflector.
4. As you move in and out of optimum lamp focus, you will see the hot spot either get wider or narrower. The goal is to either totally diminish the hot spot by having it widen and spread across the entire spot or moving the hot spot so that it covers as much of the beam spot area as possible.

Disconnect the power cord before replacing a fuse and always replace with the same type fuse.

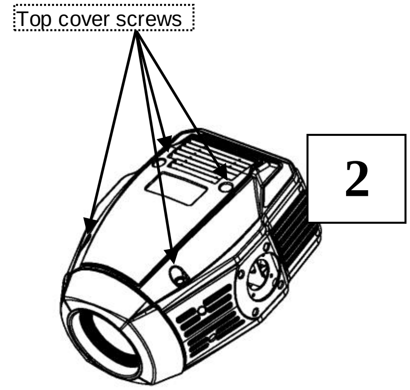
## Fuse Replacement

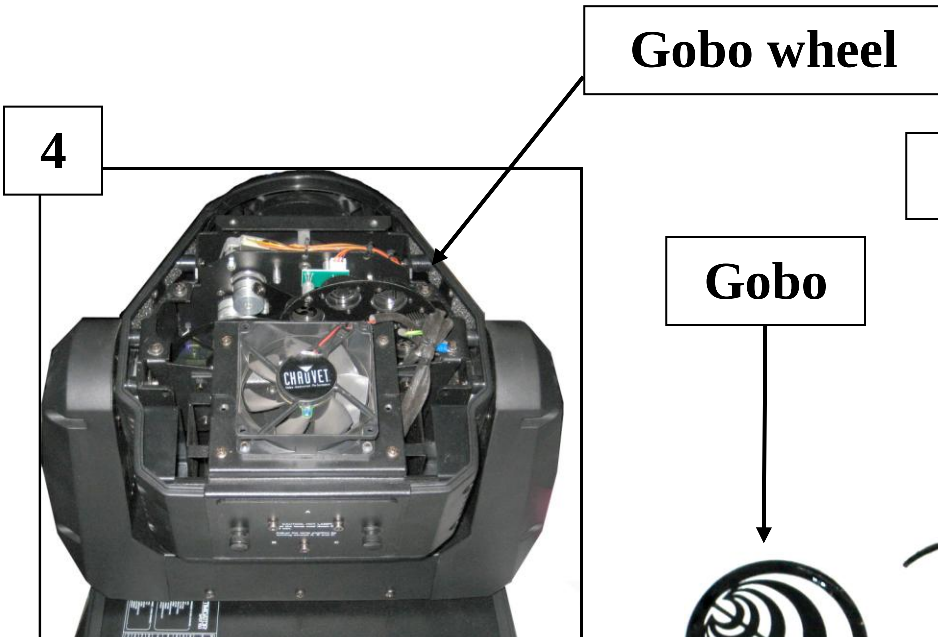
With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

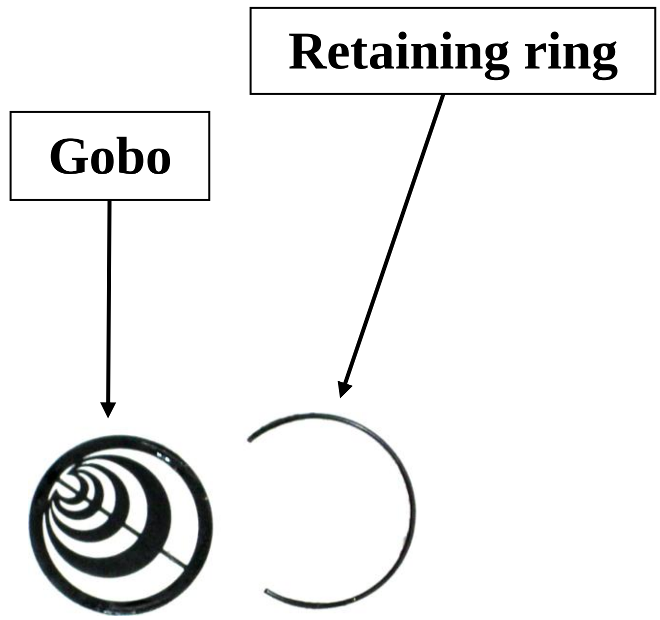


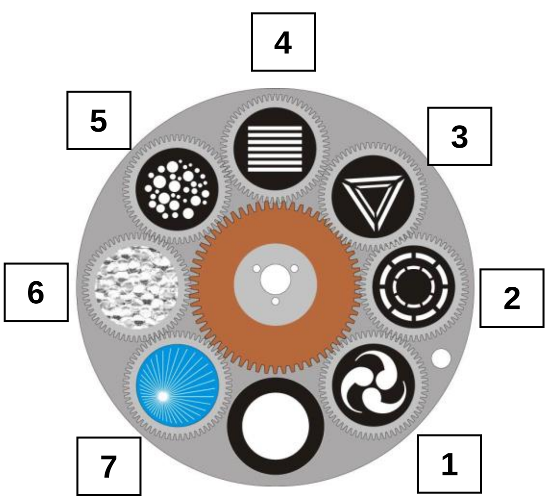
## Replacing Gobos

1) Be sure the fixture is not powered or connected to mains.
2) Remove the top cover by removing the 4 screws with a Phillips #2 screwdriver.
3) With your hand, move the gobo wheel to the desired gobo to change.
4) You may now replace the gobo easily by removing the retaining ring. This may be done with a small tool.
5) Replace the new gobo and the retaining ring.
6) Replace top cover and 4 cover screws.






# Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

**Important:** Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)
Maximum recommended number of fixtures on a serial data link: 32 fixtures

## Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET-certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

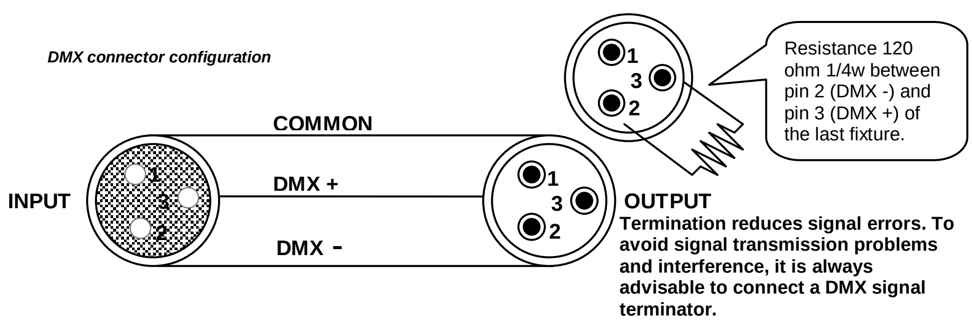
### DMX DATA CABLE

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

*2-conductor twisted pair plus a shield*
*Maximum capacitance between conductors – 30 pF/ft.*
*Maximum capacitance between conductor and shield – 55 pF/ft.*
*Maximum resistance of 20 ohms / 1000 ft.*
*Nominal impedance 100 – 140 ohms*

### CABLE CONNECTORS

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.




**CAUTION** Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

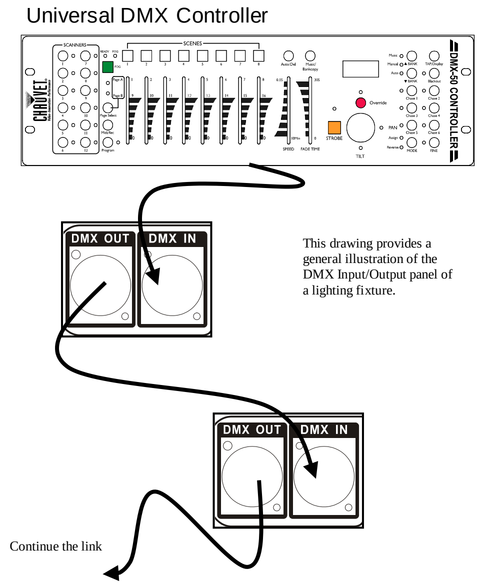
## 3-PIN TO 5-PIN CONVERSION CHART

**Note!** If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M, or DMX5F.
The chart below details a proper cable conversion:

**3 PIN TO 5 PIN CONVERSION CHART**

| Conductor | 3 Pin Female (output) | 5 Pin Male (Input) |
|---|---|---|
| **Ground/Shield** | Pin 1 | Pin 1 |
| **Data ( - ) signal** | Pin 2 | Pin 2 |
| **Data ( + ) signal** | Pin 3 | Pin 3 |
| **Do not use** | | Do not use |
| **Do not use** | | Do not use |

# Setting up a DMX Serial Data Link




1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

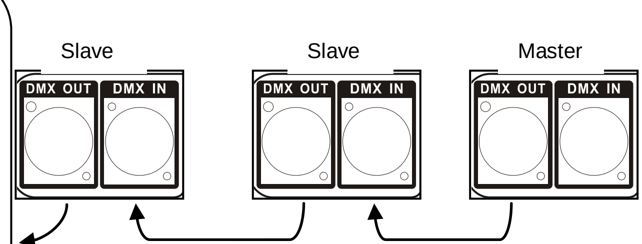
**CHAUVET Certified DMX Data Cables**

| Order Code | Description |
|---|---|
| DMX1.5 | DMX Cable 1.5m/4.9ft |
| DMX4.5 | DMX Cable 4.5m/14.8ft |
| DMX10 | DMX Cable 10m/32.8ft |

# Master/Slave Fixture Linking

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting. Please consult the "Operating Instructions" section in this manual for complete instructions for this type of setup and configuration.



## Mounting

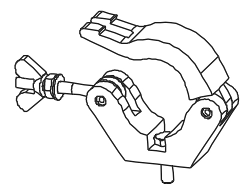
### ORIENTATION

This fixture may be mounted in a hanging or floor mounted/upright position.

**Do not hang this fixture at odd angels, such as 45° degrees or 90° degrees!**

### RIGGING

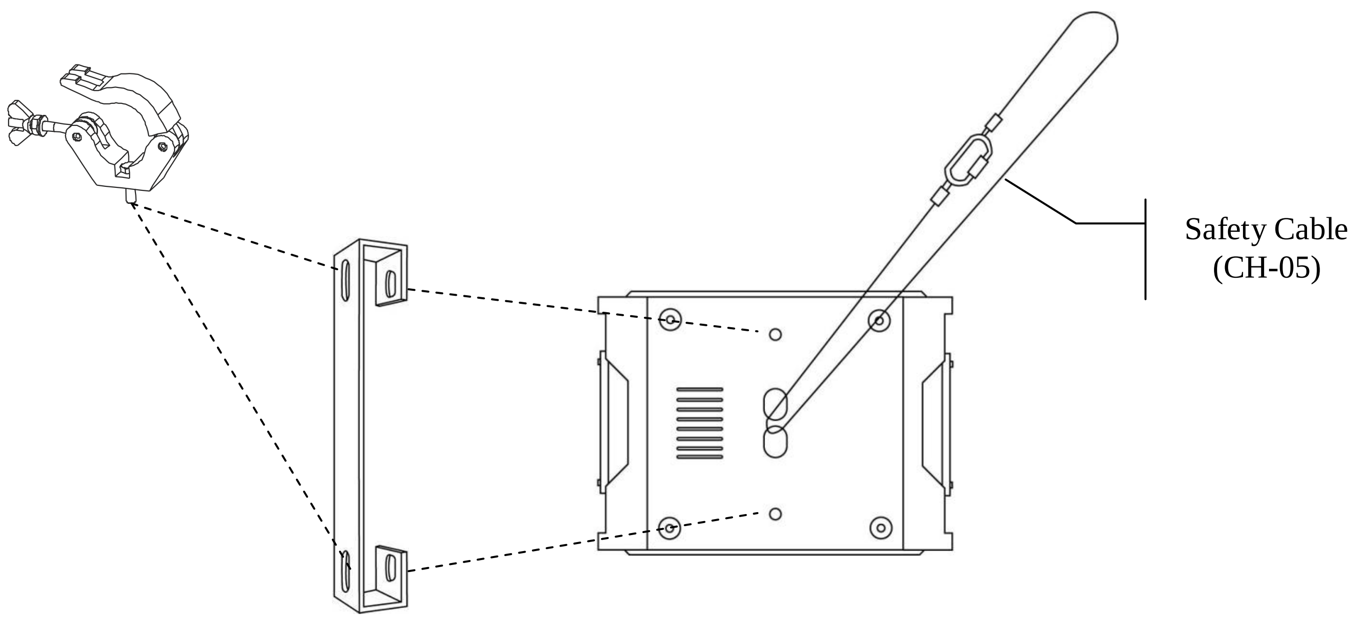
*Hanging Clamp*



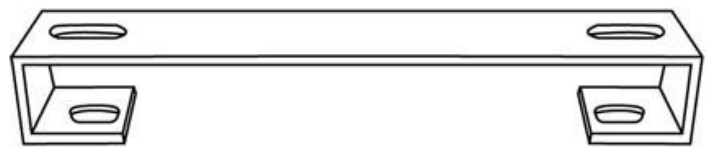
Note!
Clamp is sold separately.

It is important never to obstruct the fan or vents pathway. Mount the fixture using, a suitable "C" or "O" type clamp (CLP-15, CLP-06. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables must always be used (CH-05).
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.




Mounting bracket



## MANUAL FOCUS

This fixture has a manual focus mechanical adjustment.

1. Locate the focus adjustment knob at the front of the fixture.
2. Using your hand (not a tool!) rotate this either clockwise or counter-clockwise in the desired focus position.

   **Note: you may not adjust this focus remotely, so be sure to set this to a position that works in the location that you are running/installing the fixture.**

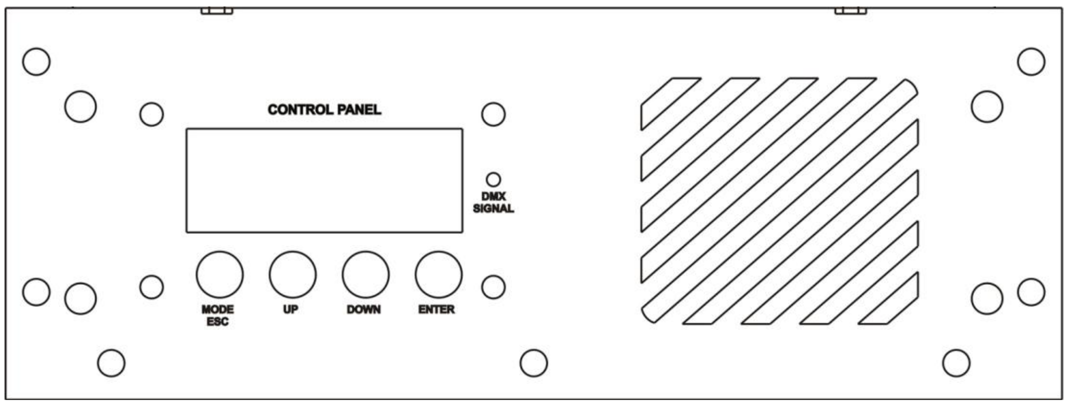
   **Note: it may be best to first set the fixture to a gobo with the color open/white, in order to make this process more effective.**



# 4. OPERATING INSTRUCTIONS

## Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.




| **Button** | Function |
|---|---|
| **<MODE/ESC>** | Used to access the menu or to return to a previous menu option |
| **<UP>** | Scrolls through menu options in ascending order |
| **<DOWN>** | Scrolls through menu options in descending order |
| **<ENTER>** | Used to select and store the current menu or option within a menu |

The Control Panel LCD Display shows the menu items you select from the menu map on page #. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

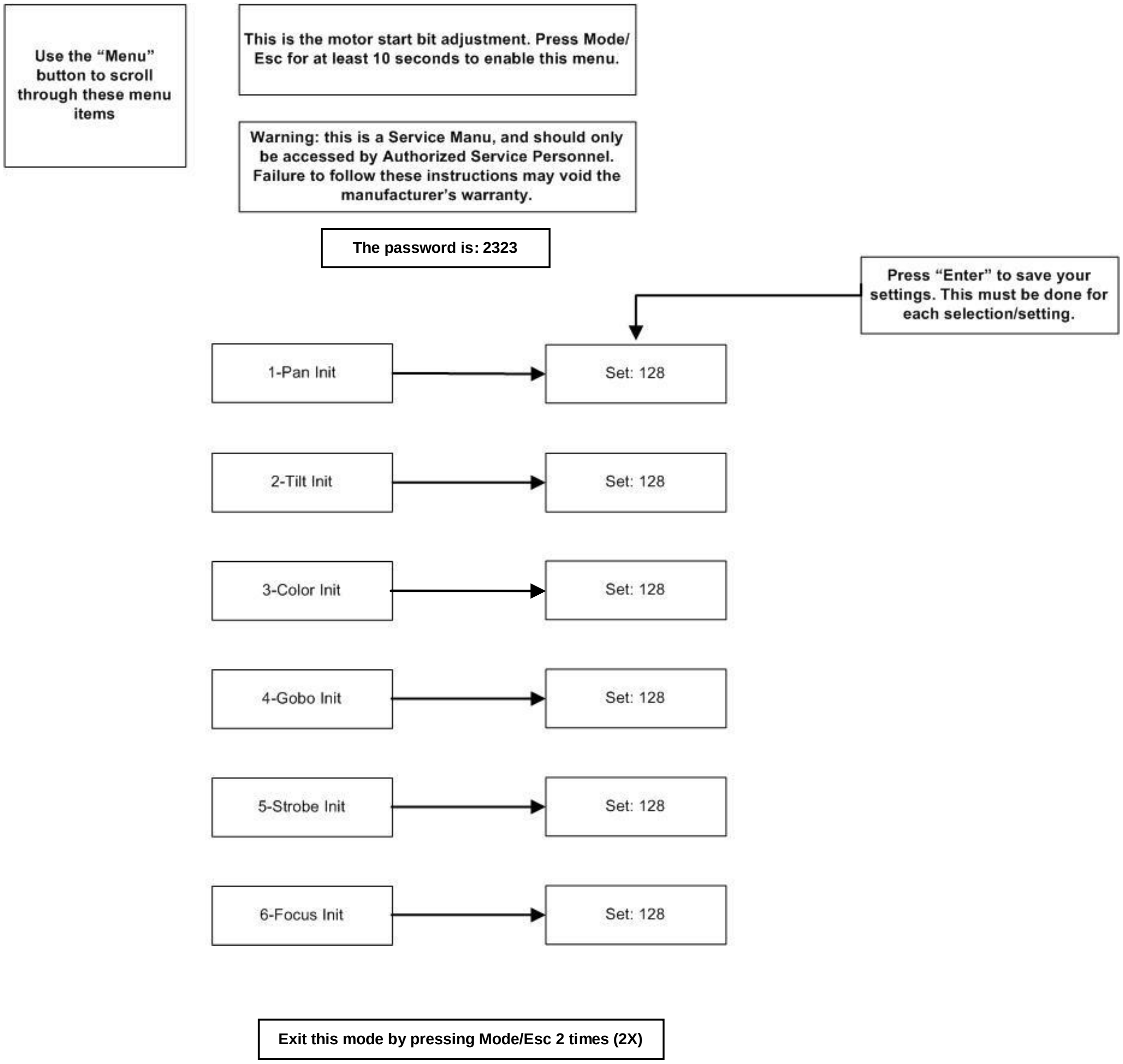
Press the **<MODE/ESC>** button repeatedly until *MENU* appears on the top line of the display. This is the top of the menu map. What appears on the bottom line of the display is one of the four choices in the menu map. Use the **<UP>** and **<DOWN>** buttons to navigate the menu map and menu options. Press the **<ENTER>** button to access the menu function currently displayed or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MODE/ESC>** button.

# Menu Map

| MAIN FUNCTION | SUB-FUNCTION | SELECTION | INSTRUCTION |
|---|---|---|---|
| **1. DMX Address** | Address | 000 ~ 255 | • Sets the DMX starting address |
| **2. Run** | Fast | | • Sets the fixture to fast Auto mode |
| | Slow | | • Sets the fixture to slow Auto mode |
| | Sound | | • Sets the fixture to audio triggering Auto mode |
| | Econtr | | • Sets the fixture to operate with the Easy Controller |
| | Slave | | • Sets the fixture to receive signal from another fixture (master/slave) or from a DMX controller |
| **3. Pan** | Normal | | • Sets the Pan to normal operation |
| | Reverse | | • Sets the Pan to inverted operation |
| **4. Tilt** | Normal | | • Sets the Tilt to normal operation |
| | Reverse | | • Sets the Tilt to inverted operation |
| **5. Display** | Bright | | • Sets the display backlight to remain on indefinitely |
| | 30-Close | | • Sets the display to turn off the back light after 30 seconds |
| **6. Pan Angle** | 540 | | • Sets the Pan range to full |
| | 360 | | • Limits the Pan range to 360° degrees |
| | 180 | | • Limits the Pan range to 180° degrees |
| **7. Tilt Angle** | 270 | | • Sets the Tilt range to full |
| | 180 | | • Limits the Tilt range to 180° degrees |
| | 90 | | • Limits the Tilt range to 90° degrees |
| **8. Channel** | ADVANCED | | • 12-channel 16-bit pan/tilt operation |
| | Basic | | • 8-channel 8-bit pan/tilt operation |
| **9. Lamp Control** | ON | | • Turns the lamp on |
| | OFF | | • Turns off the lamp |
| **10. Reset System** | No | | • No function |
| | Ok | | • Resets the fixture |
| **11. Load Set** | No | | • No function |
| | Ok | | • Reset all settings to factory defaults |

# Menu Map (continued)

## Service Menu Map



# User Configurations

## TO SET THE PAN TO INVERTING OR NON-INVERTING:

1) Press the **<MENU/ESC>**.

2) Select the desired option by using the **<UP>** and/or **<DOWN>** button to navigate through the display until you reach "3-Pan".

2) Press the **<ENTER>** button.

Note: you may select "Normal" using the **<UP** and/or **<DOWN** buttons and press the **<ENTER>** button for non-inverting; or, you may select "Reverse" for inverting.

## TO SET THE TILT TO INVERTING OR NON-INVERTING:

1) Press the **<MENU/ESC>**.

2) Select the desired option by using the **<UP>** and/or **<DOWN>** button to navigate through the display until you reach "4-Tilt".

2) Press the **<ENTER>** button.

Note: you may select "Normal" using the **<UP>** and/or **<DOWN>** buttons and press the **<ENTER>** button for non-inverting; or, you may select "Reverse" for inverting.

## TO ACTIVATE/DEACTIVATE MOVE-IN-BLACK FUNCTION(S):

This fixture has a built-in function that will offer greater ease in programming. This is called the move-in-black function. This is the option of stating that the fixture will blackout (close shutter) between 2 different steps of operation via DMX. You may enable and disable this function remotely via the control channel in DMX operation. See the below instructions for this operation for the pan/tilt movement.

1. Using a DMX controller, bring channel 14 (in advanced mode) to a value of [010⇔014].
2. Hold this value for 3 seconds.
3. After 3 seconds, you may bring the channel back down to a value of [000].
4. The fixture now has saved this setting in the onboard memory and will retain it. If you wish to disable this function, then you may bring channel 14 to a value of [015⇔019].

You may follow the above steps for the pan/tilt, color, gobo, and combined movement by locating the corresponding DMX values in the DMX values section of this user manual.

# Additional Functions

## TO USE THE FIXTURE WITH THE CA-9 EASY CONTROLLER.

1) Under the "Run" option in the menu, select "Econtr".

2) Press the **<ENTER>** button.

3) Now, plug in the CA-9 into the EASY CONTROLLER connection on the back panel of the fixture.

## RESETTING THE FIXTURE:

1) Under the "10-Reset system", Press **<ENTER>**.

2) "Select: Ok".

### TO RESTORE ALL SETTINGS TO THEIR FACTORY DEFAULTS:

***Warning: This will erase all user settings and revert the fixture back to the original factory defaults!***

1) Under the "11-Load Set", Press **<ENTER>**.

2) "Select: Ok".

3) Press the **<ENTER>** button

# Operation

## Stand-Alone Mode (Sound-Active, Auto Mode):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

1) Set the fixture to the desired standalone mode by selecting it in the onboard menu.
2) Press **<MENU/ESC>** until you reach the "2- Run" option. Press **<ENTER>**.
3) Select the desired standalone program using the **<UP>** and/or **<DOWN>** buttons. Press **<ENTER>**.

## Master/Slave Mode (Master Sound, Master Auto):

This mode will allow you to link up to 32 units together, without a controller.

1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture. For more information about terminators, see page 12.
2) Choose a unit to function as the Master. Adjust the options in the display of the master unit to one of the 3 Master Standalone modes: Auto, Sound, & Econtr. The unit must be the first unit in line. Then simply daisy chain the units together using DMX cable.
3) Set the "Run" to "Slave" on the slave units, and they will react the same as the Master.

## DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. If you are unfamiliar with DMX, please read the DMX Primer on Page 30.

1) Press **<MENU/ESC>** until you reach the "1-DMX  Address".
2) Press **<ENTER>**.
3) Adjust your starting DMX address by using the **<UP>** and/or **<DOWN>** buttons..
4) Press **<MENU/ESC>** until you reach the "2- Run".
5) Press **<ENTER>**.
6) Using the **<UP>** and/or **<DOWN>** buttons, "Select: Slave".
7) Press **<ENTER>** button.

# DMX Channel Values

## Advance Mode: (16-bit pan/tilt, 12-channel)

| Channel | Value | Function |
|---|---|---|
| **1** | | **Pan** |
| | 000 ⇔ 255 | 0° ⇔ 540° |
| **2** | | **Tilt** |
| | 000 ⇔ 255 | 0° ⇔ 270° |
| **3** | | **Pan fine** |
| | 000 ⇔ 255 | 0° ⇔ 3° |
| **4** | | **Tilt fine** |
| | 000 ⇔ 255 | 0° ⇔ 3° |
| **5** | | **Pan/tilt speed** |
| | 000 ⇔ 255 | Fast ⇔ Slow |
| **6** | | **Color Wheel** |
| | 000 ⇔ 007 | White (open) |
| | 008 ⇔ 015 | Light Blue |
| | 016 ⇔ 023 | Red |
| | 024 ⇔ 031 | Peachblow |
| | 032 ⇔ 039 | Green |
| | 040 ⇔ 047 | Yellow |
| | 048 ⇔ 055 | Pink |
| | 056 ⇔ 063 | UV |
| | 064 ⇔ 066 | White |
| | 067 ⇔ 078 | White + Light Blue |
| | 079 ⇔ 092 | Light Blue + Red |
| | 093 ⇔ 107 | Red + Peachblow |
| | 108 ⇔ 120 | Peachblow + Green |
| | 121 ⇔ 136 | Green + Yellow |
| | 137 ⇔ 152 | Yellow + Pink |
| | 153 ⇔ 170 | Pink + UV |
| | 171 ⇔ 212 | Rotating clockwise with increasing speed |
| | 213 ⇔ 255 | Rotating counter-clockwise with increasing speed |
| **7** | | **Gobo Wheel** |
| | 000 ⇔ 009 | Open |
| | 010 ⇔ 019 | Gobo 1 |
| | 020 ⇔ 029 | Gobo 2 |
| | 030 ⇔ 039 | Gobo 3 |
| | 040 ⇔ 049 | Gobo 4 |
| | 050 ⇔ 059 | Gobo 5 |
| | 060 ⇔ 069 | Gobo 6 (glass) |
| | 070 ⇔ 079 | Gobo 7 (glass) |
| | 080 ⇔ 088 | No function |
| | 089 ⇔ 099 | Gobo 1 gobo shake, fast to slow |
| | 100 ⇔ 119 | Gobo 2 gobo shake, fast to slow |
| | 120 ⇔ 139 | Gobo 3 gobo shake, fast to slow |
| | 140 ⇔ 159 | Gobo 4 gobo shake, fast to slow |
| | 160 ⇔ 179 | Gobo 5 gobo shake, fast to slow |
| | 180 ⇔ 199 | Gobo 6 (glass) gobo shake, (fast ⇔ slow) |
| | 200 ⇔ 219 | Gobo 7 (glass) gobo shake, (fast ⇔ slow) |
| | 220 ⇔ 255 | Gobo scroll: Bidirectional rotation |
| **8** | | **Gobo Rotation** |
| | 000 ⇔ 010 | Stop |
| | 011 ⇔ 131 | Rotate Counter-clockwise (slow ⇔ fast) |
| | 132 ⇔ 132 | Stop |
| | 133 ⇔ 255 | Rotate Clockwise (slow ⇔ fast) |
| **9** | | **Shutter** |
| | 000 ⇔ 007 | Shutter closed |
| | 008 ⇔ 022 | Open |
| | 023 ⇔ 085 | Strobe (slow ⇔ fast) |
| | 086 ⇔ 100 | Open |
| | 101 ⇔ 165 | Pulse (slow ⇔ fast) |
| | 166 ⇔ 180 | Open |
| | 181 ⇔ 246 | Random (slow ⇔ fast) |
| | 247 ⇔ 255 | Open |
| **10** | | **Dimmer** |
| | 000 ⇔ 255 | Closed ⇔ Open |
| **11** | | **Function** |
| | 000 ⇔ 009 | No function |

| | | |
|---|---|---|
| | 010 ⇔ 014 | Pan/tilt move-in-black |
| | 015 ⇔ 019 | Pan/tilt move-in-black (disabled) |
| | 020 ⇔ 024 | Color wheel move-in-black |
| | 025 ⇔ 029 | Color wheel move-in-black (disabled) |
| | 030 ⇔ 034 | Gobo wheel move-in-black |
| | 035 ⇔ 039 | Gobo wheel move-in-black (disabled) |
| | 040 ⇔ 044 | All movement move-in-black |
| | 045 ⇔ 049 | All movement move-in-black (disabled) |
| | 050 ⇔ 054 | Reset pan/tilt |
| | 055 ⇔ 059 | Reset color wheel |
| | 060 ⇔ 064 | Reset gobo wheel |
| | 065 ⇔ 069 | Reset shutter |
| | 070 ⇔ 074 | Reset focus |
| | 075 ⇔ 079 | Reset prism |
| | 080 ⇔ 089 | Reset all |
| | 090 ⇔ 111 | No function |
| | 112 ⇔ 119 | Lamp off |
| | 120 ⇔ 127 | Lamp on |
| | 128 ⇔ 129 | No function |
| | 130 ⇔ 192 | Auto program |
| | 193 ⇔ 255 | Sound program |
| **12** | | **Effect** |
| | 000 ⇔ 009 | No function |
| | 010 ⇔ 019 | Effect 1 |
| | 020 ⇔ 029 | Effect 2 |
| | 030 ⇔ 039 | Effect 3 |
| | 040 ⇔ 049 | Effect 4 |
| | 050 ⇔ 059 | Effect 5 |
| | 060 ⇔ 069 | Effect 6 |
| | 070 ⇔ 079 | Effect 7 |
| | 080 ⇔ 089 | Effect 8 |
| | 090 ⇔ 099 | Effect 9 |
| | 100 ⇔ 109 | Effect 10 |
| | 110 ⇔ 119 | Effect 11 |
| | 120 ⇔ 129 | Effect 12 |
| | 130 ⇔ 139 | Effect 13 |
| | 140 ⇔ 149 | Effect 14 |
| | 150 ⇔ 159 | Effect 15 |
| | 160 ⇔ 169 | Effect 16 |
| | 170 ⇔ 179 | Effect 17 |
| | 180 ⇔ 189 | Effect 18 |
| | 190 ⇔ 199 | Effect 19 |
| | 200 ⇔ 209 | Effect 20 |
| | 210 ⇔ 219 | Effect 21 |
| | 220 ⇔ 229 | Effect 22 |
| | 230 ⇔ 239 | Effect 23 |
| | 240 ⇔ 249 | Effect 24 |
| | 250 ⇔ 255 | Effect 25 |

## Basic Mode: (8-bit pan/tilt, 8-channel)

| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| 1 | | **Pan** |
| | 000 ⇔ 255 | 0° ⇔ 540° |
| 2 | | **Tilt** |
| | 000 ⇔ 255 | 0° ⇔ 270° |
| 3 | | **Color Wheel** |
| | 000 ⇔ 007 | White (open) |
| | 008 ⇔ 015 | Light Blue |
| | 016 ⇔ 023 | Red |
| | 024 ⇔ 031 | Peachblow |
| | 032 ⇔ 039 | Green |
| | 040 ⇔ 047 | Yellow |
| | 048 ⇔ 055 | Pink |
| | 056 ⇔ 063 | UV |
| | 064 ⇔ 066 | White |
| | 067 ⇔ 078 | White + Light Blue |
| | 079 ⇔ 092 | Light Blue + Red |
| | 093 ⇔ 107 | Red + Peachblow |
| | 108 ⇔ 120 | Peachblow + Green |
| | 121 ⇔ 136 | Green + Yellow |
| | 137 ⇔ 152 | Yellow + Pink |
| | 153 ⇔ 170 | Pink + UV |
| | 171 ⇔ 212 | Rotating clockwise with increasing speed |
| | 213 ⇔ 255 | Rotating counter-clockwise with increasing speed |
| 4 | | **Gobo Wheel** |
| | 000 ⇔ 009 | Open |
| | 010 ⇔ 019 | Gobo 1 |
| | 020 ⇔ 029 | Gobo 2 |
| | 030 ⇔ 039 | Gobo 3 |
| | 040 ⇔ 049 | Gobo 4 |
| | 050 ⇔ 059 | Gobo 5 |
| | 060 ⇔ 069 | Gobo 6 (glass) |
| | 070 ⇔ 079 | Gobo 7 (glass) |
| | 080 ⇔ 088 | No function |
| | 089 ⇔ 099 | Gobo 1 gobo shake, fast to slow |
| | 100 ⇔ 119 | Gobo 2 gobo shake, fast to slow |
| | 120 ⇔ 139 | Gobo 3 gobo shake, fast to slow |
| | 140 ⇔ 159 | Gobo 4 gobo shake, fast to slow |
| | 160 ⇔ 179 | Gobo 5 gobo shake, fast to slow |
| | 180 ⇔ 199 | Gobo 6 (glass) gobo shake, (fast ⇔ slow) |
| | 200 ⇔ 219 | Gobo 7 (glass) gobo shake, (fast ⇔ slow) |
| | 220 ⇔ 255 | Gobo scroll: Bidirectional rotation |
| 5 | | **Gobo Rotation** |
| | 000 ⇔ 010 | Stop |
| | 011 ⇔ 131 | Rotate Counter-clockwise (slow ⇔ fast) |
| | 132 ⇔ 132 | Stop |
| | 133 ⇔ 255 | Rotate Clockwise (slow ⇔ fast) |
| 6 | | **Shutter** |
| | 000 ⇔ 007 | Shutter closed |
| | 008 ⇔ 022 | Open |
| | 023 ⇔ 085 | Strobe (slow ⇔ fast) |
| | 086 ⇔ 100 | Open |
| | 101 ⇔ 165 | Pulse (slow ⇔ fast) |
| | 166 ⇔ 180 | Open |
| | 181 ⇔ 246 | Random (slow ⇔ fast) |
| | 247 ⇔ 255 | Open |
| 7 | | **Dimmer** |
| | 000 ⇔ 255 | Closed⇔Open |
| 8 | | **Function** |
| | 000 ⇔ 009 | No function |
| | 010 ⇔ 014 | Pan/tilt move-in-black |
| | 015 ⇔ 019 | Pan/tilt move-in-black (disabled) |
| | 020 ⇔ 024 | Color wheel move-in-black |
| | 025 ⇔ 029 | Color wheel move-in-black (disabled) |
| | 030 ⇔ 034 | Gobo wheel move-in-black |
| | 035 ⇔ 039 | Gobo wheel move-in-black (disabled) |
| | 040 ⇔ 044 | All movement move-in-black |
| | 045 ⇔ 049 | All movement move-in-black (disabled) |
| | 050 ⇔ 054 | Reset pan/tilt |
| | 055 ⇔ 059 | Reset color wheel |
| | 060 ⇔ 064 | Reset gobo wheel |
| | 065 ⇔ 069 | Reset shutter |

| | |
|---|---|
| 075 ⇔ 079 | Reset prism |
| 080 ⇔ 089 | Reset all |
| 090 ⇔ 111 | No function |
| 112 ⇔ 119 | Lamp off |
| 120 ⇔ 127 | Lamp on |
| 128 ⇔ 129 | No function |
| 130 ⇔ 192 | Auto program |
| 193 ⇔ 255 | Sound program |

# 5. APPENDIX

## DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33’), DMX-4.5 (15’) and DMX-1.5 (5’)

### SETTING THE STARTING ADDRESS

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that uses 6 DMX channels and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol, we suggest jumping to the Appendix Section and reading the heading “DMX Primer”. It contains very useful information that will help you understand its use.

## Intimidator Spot 150 Service Maintenance Guide

| Symptom(s) | Possible Solution(s) |
|---|---|
| Lamp is not illuminating | Clean the fixture regularly to avoid any such failure. This fixture is forced convection cooled, which means that if the fans are kept clean and free of debris, then proper cooling will be allowed to occur |
| | Check the options in the display for Lamp function [on~off]. Also check the DMX signal. It is possible to remotely turn off the lamp with a DMX controller. |
| | Check to see if the lamp needs to be replaced. This is a wear item, and will need to be checked and replaced on a regular basis of operation. |
| Breaker/Fuse keeps blowing | Check total load placed on the electrical circuit |
| | Check for a short in the electrical wiring: internal and/or external |
| Device has no power | Check device's fuse (internal) |
| | Check for power on Mains |
| | *-Note: In the event of magnetic transformer failure, the unit can be sent in for repair; however, a replacement part can be ordered directly from Chauvet Part#: P140-IS150TRAN* |
| Fixture is not responding to DMX | Check Control Panel settings for correct addressing |
| | Check DMX cables |
| | Check polarity switch settings on the controller |
| | Check cable connections |
| | Call service technician |
| | *-Note: In the event of Display/Master PCB failure, a replacement PCB can be ordered directly from Chauvet Part#: P170-IS150MAS* |
| Loss of signal | Use only DMX cables |
| | Install terminator |
| | Note: Keep DMX cables separated from power cables or black lights |
| Pan/tilt movement, color, gobo reset problem | 1 or more sensors may need to be adjusted or replaced. This may be either the optical sensor or the magnetic stopper sensor. |
| | *Note In the event of a sensor failure, a replacement sensor may be ordered directly from Chauvet: Part#: Magnetic Pan: P170-IS250PSS*<br>*Optical Pan: P170-IS250POS*<br>*Magnetic Tilt: P110-IS250TSS*<br>*Optical Tilt: P100-IS250TOS*<br>*Gobo: P100-IS150GWS*<br>*Gobo rotation: P100-IS150GRS*<br>*Color: P100-IS150CWS* |
| The display backlight will not turn off and stays lit | There is an option in the control board that determines if the display turns off after 30 seconds of inactivity, or if the display stays lit indefinitely.<br>*-See section "5-Display" in the onboard display "close".* |

**If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the following page.**

# Contact Us

## World Wide

| | |
|---|---|
| ***General Information*** | CHAUVET<br>3000 North 29th Court<br>Hollywood, FL 33020<br>voice: 954.929.1115<br>fax: 954.929.5560<br>toll free: 800.762.1084 |
| ***Technical Support*** | CHAUVET<br>3000 North 29th Court<br>Hollywood, FL 33020<br>voice: 954.929.1115 **(Press 4)**<br>fax: 954.929.5560 **(Attention: Service)** |
| **World Wide Web** | www.chauvetlighting.com |

**Website:** http://www.chauvetlighting.com

## General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

## Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RMA #). Products returned without a RMA # will be refused. Call CHAUVET and request RMA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note:** **If you are given a RMA #, please include the following information on a piece of paper inside the box:**

1) Your name
2) Your address
3) Your phone number
4) The RMA #
5) A brief description of the symptoms

## Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

# Technical Specifications

**WEIGHT & DIMENSIONS**
Length ........................................ 13.4 in (340 mm)
Width ........................................ 13.1 in (333 mm)
Height ........................................ 17.6 in (446 mm)
Weight ........................................ 40 lbs (18.1 kg)

**POWER**
Switch-selectable power settings ........................................ 115VAC 60Hz or 230VAC 50Hz
Fuse (fast-blow) ........................................ F5A 250V
Power Consumption ........................................ 221W (1.5A) max @ 120V
Power Consumption ........................................ 299W (1.3A) max @ 230V
Inrush Power ........................................ (3A) @ 120V
Inrush Power ........................................ (0.8A) @ 230V
Power Factor ........................................ 0.92 @ 120V
Power Factor ........................................ 0.92 @ 230V

**LIGHT SOURCE**
Lamp ........................................ HTI150 150W 6500° 750hrs

**PHOTO OPTIC**
Luminance @ 1m ........................................ 10,800 lux
Beam Angle ........................................ 14°

**RANGE**
Pan ........................................ 570°
Tilt ........................................ 270°

**ROTATING GOBOS**
Outside diameter ........................................ 24.8 mm
Image diameter (maximum) ........................................ 17.5 mm
Max thickness ........................................ 2.5 mm

**THERMAL**
Maximum ambient temperature ........................................ 104°F (40°C)

**CONTROL & PROGRAMMING**
Data input ........................................ locking 3&5-pin XLR male socket
Data output ........................................ locking 3&5-pin XLR female socket
Data pin configuration (3-pin) ........................................ pin 1 shield, pin 2 (-), pin 3 (+)
Data pin configuration (5-pin) ........................................ pin 1 shield, pin 2 (-), pin 3 (+), pin 4 & 5 not used
Protocols ........................................ DMX-512 USITT
DMX Channels ........................................ 8, 12

**STANDARD ORDERING INFORMATION**
Intimidator™ Spot 250 ........................................ INTIMIDATORSPOT150
Easy controller ........................................ CA-9

**WARRANTY INFORMATION**
Warranty ........................................ 2-year limited warranty